

Well Construction Details - Langtree Peninsula Groundwater Monitoring and Research Station, Iredell County, North Carolina

Well name	Latitude	Longitude	Total depth ft bls ¹	Well yield (approximate) gallons/min	Land surface elevation ft ²	Measuring point elevation ft ²	Completion Date	Ground water zone	Casing Type	Casing / Riser Depth ft bls ¹
MW-1S			38		812.57		10/17/2000	Regolith	PVC	28
MW-1I			53		812.65		10/11/2000	Transition-zone	PVC	38
MW-ID			602	50	812.51		11/13/2000	Bedrock	PVC	76
MW-2S			28		803.08		12/13/2000	Regolith	PVC	13
MW-2I			48		802.89		12/13/2000	Transition-zone	PVC	33
MW-2D			400		802.69		11/13/2000	Bedrock	PVC	53
MW-3S			20		761.96		1/24/2001	Regolith	PVC	5
MW-3I			73		762.92		1/24/2001	Transition-zone	PVC	43
MW-3D			400	3	762.62		1/23/2001	Bedrock	PVC	90
MW-4IA			55		802.39		2/26/2002	Transition-zone	PVC	40
MW-4IB			53		802.93		3/26/2001	Transition-zone	PVC	38
MW-4D			400	5	801.84		3/14/2001	Bedrock	PVC	69
MW-5S			20		786.18		3/27/2001	Regolith	PVC	10
MW-5I			35		785.07		3/27/2001	Transition-zone	PVC	20
MW-5D			400	20	784.73		3/7/2001	Bedrock	PVC	40
MW-6S			18		765.32		3/28/2001	Regolith	PVC	8
MW-6IB			30		765.73		3/4/202	Transition-zone	PVC	15
MW-6D			400	35	765.84		2/27/2001	Bedrock	PVC	69

1 - Feet below land surface; 2 - Feet above North American Vertical Datum of 1988

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Well name	Screened / Open Interval		Screen / open hole diameter	Screened or Open	Screen Slot Size	Type of well	Comments
	ft bls ¹						
MW-1S	28	38	4	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
MW-1I	38	53	4	Screened	0.01 slotted PVC	Transition-zone Monitoring	
MW-ID	76	602	6 with 4-inch liner	Open hole		Bedrock Monitoring	Four-inch liner installed in 12/2001
MW-2S	13	28	4	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
MW-2I	33	48	4	Screened	0.01 slotted PVC	Transition-zone Monitoring	
MW-2D	53	400	6	Open hole		Bedrock Monitoring	
MW-3S	5	20	4	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
MW-3I	43	73	4	Screened	0.01 slotted PVC	Transition-zone Monitoring	
MW-3D	90	400	6	Open hole		Bedrock Monitoring	Abandoned in 03/2002
MW-4IA	40	55	2	Screened	0.01 slotted PVC	Transition-zone Monitoring	
MW-4IB	38	53	4	Screened	0.01 slotted PVC	Transition-zone Monitoring	
MW-4D	69	400	6 with 4-inch liner	Open hole		Bedrock Monitoring	Four-inch liner installed in 12/2001
MW-5S	10	20	4	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
MW-5I	20	35	4	Screened	0.01 slotted PVC	Transition-zone Monitoring	
MW-5D	40	400	6	Open hole		Bedrock Monitoring	
MW-6S	8	18	4	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
MW-6IB	15	30	4	Screened	0.01 slotted PVC	Transition-zone Monitoring	
MW-6D	69	400	6 with 4-inch liner	Open hole		Bedrock Monitoring	Four-inch liner installed in 12/2001

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GP-1			38.5		805.10		9/13/2000	Regolith	PVC	30
GP-2			36		793.48		9/21/2000	Regolith	PVC	27
GP-3			31		791.04		10/3/2000	Regolith	PVC	22
Gp-4			34		793.08		9/19/2000	Regolith	PVC	25
GP-5			32		786.81		10/3/2000	Regolith	PVC	23
GP-6			25		776.58		10/4/2000	Regolith	PVC	16
GP-7			18		767.37		10/4/2000	Regolith	PVC	9
GP-8			18		768.04		10/10/2000	Regolith	PVC	8
WL-1			35		784.27		10/10/2000	Regolith	PVC	20
WL-2			26		780.74		10/9/2000	Regolith	PVC	16
WL-3			20		770.46		10/10/2000	Regolith	PVC	10
WL-4			30		775.85		10/10/2000	Regolith	PVC	17

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Well name	Screened / Open Interval		Screen / open hole diameter in	Screened or Open	Screen Slot Size in	Type of well	Comments
	ft	bls ¹					
GP-1	30	38.5	0.5	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
GP-2	27	36	0.5	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
GP-3	22	31	0.5	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
GP-4	25	34	0.5	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
GP-5	23	32	0.5	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
GP-6	16	25	0.5	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
GP-7	9	18	0.5	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
GP-8	8	18	0.5	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
WL-1	20	35	1.0	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
WL-2	16	26	1.0	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
WL-3	10	20	1.0	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	
WL-4	17	30	1.0	Screened	0.01 slotted PVC	Shallow Regolith Monitoring	

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